**T10D05 - Functional groups, nomenclature and structural formulae CONTINUED…(same as T10D03)**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. On THIS SHEET write out the **full** structural formula **AND** the condensed formula of the following molecules:

|  |  |  |
| --- | --- | --- |
| Organic Nomenclature | Condensed formula | Structural Formula |
| 1. Methanol |  |  |
| 1. butanone |  |  |
| 1. pentan-3-one |  |  |
| 1. butanoic acid |  |  |
| 1. propan-2-ol |  |  |
| 1. propanamide |  |  |
| 1. 3-aminohexane |  |  |
| 1. 1,1,2-trichloroethane |  |  |
| 1. 1,2-dibromoethene |  |  |

7. Name each of the following organic compounds:

|  |  |
| --- | --- |
| 1. CH3CH2CH2CH3 | h) CH3CH(OH)CH2CHO |
| 1. CH3CH2CH2C(CH3)3 | j) CH3CHBrCHBrCH3 |
| 1. CH2=CHCH2CH2CH3 | k) CH2BrCH(CH3)CHClCH2CH3 |
| d) CH3CHClCH(CH3)2 | l) CH3CH(OH)CH(CH3)2 |
| 1. (CH3)2C(OH)CH2CH3 | m) (CH3)2CHCHO |
| 1. CH3CHO | n) CH3CH2CH2COCH3 |
| 1. CH3CH2COCH2CH3 | o) (CH3)2CHCOOH |
| 1. CH3CH2COOH | p) CH3CHBrCH(OH)CH3 |

8. Draw the structural formula of each of the following organic compounds.

|  |  |
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| a) 2,2-dimethylbutane |  |
| b) 4-ethylhex-2-ene |  |
| c) 2-bromo-2-iodobutane |  |
| d) 4-hydroxybut-1-ene |  |
| e) 2,2,3-trimethylbutane |  |
| f) 3-chlorobutanal |  |
| g) 3-methylbutanone |  |
| h) 2-bromobutanoic acid |  |
| i) 1,2-dichloropent-1-ene |  |
| j) 3-hydroxybutanoic acid |  |